TirGuard

High-Transparency Far-Infrared Blocking Dispersion

Features

- ○ By adding this product to film materials, it effectively **suppresses thermal radiation** without compromising **transparency**.
- ○ It can be used for various applications as it is a binder-free dispersion.

TirGuard P01

Active Ingredient Concentration	**12.6 wt%**
Solvent Composition	**PMA＋NPA**
Viscosity	**10 mPa s or Less**

- Coating Transparency -

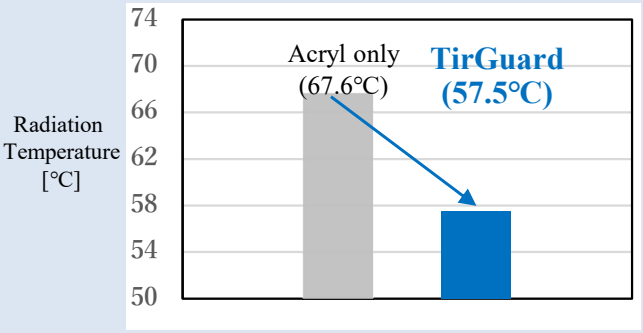
	Acrylic Resin Only	TirGuard + Acrylic Resin
Total Light Transmittance	88.6 %	85.5 %
Haze	4.0 %	4.6 %

*The above physical properties include values for the substrate.

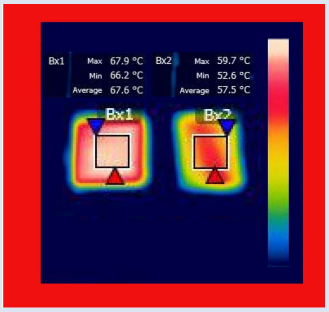
Resin Used : Acrylic Resin
Resin Addition Amount : 6.3 g per 100 g of TirGuard
Coating Thickness : Dry 0.8 μm (Theoretical Value)
Total Light Transmittance : JIS K 7361, D65 Light Source
Substrate : 100 μm PET Film

- Thermal Radiation Suppression -

Coating Thermal Radiation Properties



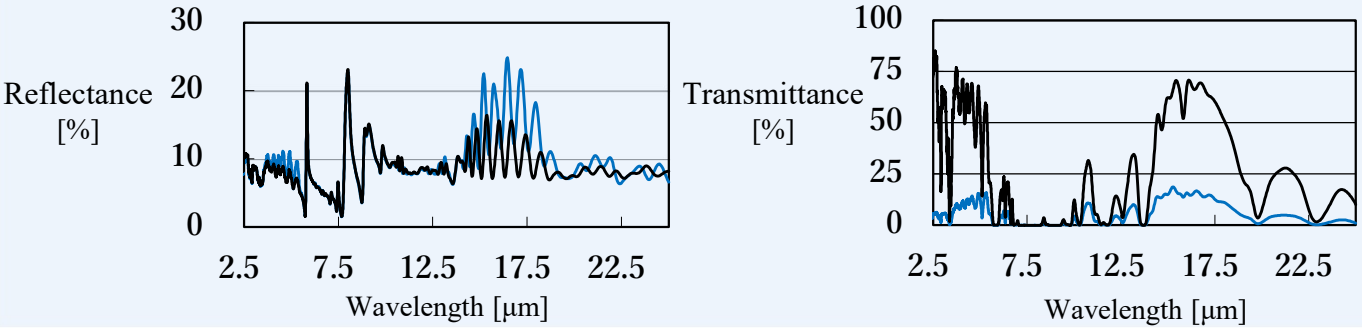
Infrared Camera Image



Acrylic resin coating with TirGuard added and an acrylic resin coating were placed on a 70°C hot plate. The radiation temperature was measured using a far-infrared camera from a distance of 50 cm above.

- Spectrum -

- Acryl only - TirGuard



[Notes]
This data represents typical values and does not guarantee performance.
Please verify adequate performance under your specific conditions of use.

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